

Product Texts

Novodur® ECO HH-106 MR30 is a high heat injection molding grade providing a balanced property profile. The product contains 30% post-consumer mechanically recycled ABS and has received RecyClass certification.

Carbon Footprint Reduction vs Fossil-Based (3rd party validated): 23 % (ISO 14044)

Post-Consumer Recycled ABS Content (RecyClass-certified): 30 %

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2800	MPa	ISO 527
^[C] Yield stress	48	MPa	ISO 527
^[C] Yield strain	2.6	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2800	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
^[C] Charpy impact strength, +23°C	60	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	5	kJ/m ²	ISO 179/1eA
Ball indentation hardness	120	MPa	ISO 2039-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	100	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	106	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	106	°C	ISO 306

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Humidity absorption	0.25	%	Sim. to ISO 62
^[C] Density	1050	kg/m ³	ISO 1183
Recycled resin content	30	%	-
Bulk density	600	kg/m ³	-

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	230 - 260	°C	-
Mold temperature	60 - 80	°C	-

Characteristics**Processing**

Injection Molding

Certifications

Recycled Resin Content

Delivery form

Pellets

Applications

Automotive, Electrical and Electronical

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING

Pre-drying, Temperature: 80°C

Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 230 - 260°C

Mold temperature, range: 60 - 80°C